

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/775,048
Filing Date	February 9, 2004
First Named Inventor	Richard L. Giroux, et al.
Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0359.P1

COPY**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
/HD/		US-6,857,487	02-22-2005	Galloway	
		US-6,857,486	02-22-2005	Chitwood, et al.	
		US-6,854,533	02-15-2005	Galloway	
		US-6,848,517	02-01-2005	Wardley	
		US-6,840,322	01-11-2005	Haynes	
		US-6,752,211	06-22-2004	Dewey, et al.	
		US-6,745,834	06-08-2004	Davis, et al.	
		US-6,725,924	04-27-2004	Davidson, et al.	
		US-6,708,769	03-23-2004	Haugen, et al.	
		US-6,668,684	12-30-2003	Allen, et al.	
		US-6,668,274	12-23-2003	Hughes	
		US-6,655,460	12-02-2003	Bailey, et al.	
		US-6,651,737	11-25-2003	Bouligny	
		US-6,585,040	07-01-2003	Hanton, et al.	
		US-6,536,522	03-25-2003	Birkhead, et al.	
		US-6,464,011	10-15-2002	Tubel	
		US-6,458,471	10-01-2002	Lovato, et al.	
		US-6,433,241	09-03-2002	Juhasz, et al.	
		US-6,378,633	04-30-2002	Moore	
/HD/		US-6,371,203	04-16-2002	Frank, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
/HD/		EP 0479583	04-08-1992	Gonzalez, et al.		
		EP 1148206	10-24-2001	Scott, et al.		
		GB 2381809	05-14-2003	Ohmer		
		GB 2347445	09-06-2000	Metcalf, et al.		
		WO 99/24689	05-20-1999	Collins		
		WO 99/04135	01-28-1999	Collins		
		WO 97/05360	02-13-1997	Collins		
		WO 03/074836	09-12-2003	Philip		
/HD/						

Examiner Signature	/Hoang Dang/ (04/15/2007)	Date Considered	04/15/2007
-----------------------	---------------------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

Application Number	10/775,048
Filing Date	February 9, 2004
First Named Inventor	Richard L. Giroux
Art Unit	3672
Examiner Name	Hoang C. Dang
Attorney Docket Number	WEAT/0359.P1

(Use as many sheets as necessary)

Sheet	1	of	1
-------	---	----	---

[illegible][illegible]

04/15/2007

*EXAMINER: Initial # reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinda Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign c: the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 144948-10

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	2
-------	---	----	---

Complete if Known

Application Number	10/775,048
Filing Date	February 9, 2004
First Named Inventor	Richard L. Giroux, et al.
Art Unit	3672
Examiner Name	Hoang C. Dang
Attorney Docket Number	WEAT/0359 P1

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

/Hoang Dang/ (04/15/2007)

Date Considered

04/15/2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

[illegible]

Examiner Signature	/Hoang Dang/ (04/15/2007)	Date Considered	04/15/2007
-----------------------	---------------------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 5

Complete if Known

Application Number	10/775,048
Filing Date	February 9, 2004
First Named Inventor	Richard L. Giroux
Art Unit	3672
Examiner Name	Hoang C. Dang
Attorney Docket Number	WEAT/0359.P1

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
/HD/	A1	US-7,128,154	10-31-2008	Giroux, et al.	
	A2	US- 7,117,957	10-10-2008	Metcalfe, et al.	
	A3	US-7,108,084	09-19-2006	Vail, III	
	A4	US- 7,108,083	09-19-2006	Simonds, et al.	
	A5	US-7,108,072	09-19-2006	Cook, et al.	
	A6	US- 7,100,713	09-05-2006	Tulloch	
	A7	US-7,100,710	09-05-2006	Vail, III	
	A8	US- 7,096,982	08-29-2006	McKay, et al.	
	A9	US- 7,093,675	08-22-2006	Pia	
	A10	US- 7,090,004	08-15-2006	Warren, et al.	
	A11	US- 7,048,050	05-23-2006	Vail, III, et al.	
	A12	US- 7,040,420	05-09-2006	Vail, III	
	A13	US- 7,036,610	05-02-2006	Vail, III	
	A14	US- 7,013,997	03-21-2006	Vail, III	
	A15	US- 7,004,264	02-28-2006	Simpson, et al.	
	A16	US- 6,953,096	10-11-2005	Gledhill, et al.	
	A17	US- 6,941,652	09-13-2005	Echols, et al.	
	A18	US- 6,926,126	08-09-2005	Baumann, et al.	
	A19	US- 6,923,255	08-02-2005	Lee	
	A20	US- 6,920,932	07-26-2005	Zimmerman	
	A21	US-6,857,487	02-22-2005	Galloway, et al.	
	A22	US- 6,802,374	10-12-2004	Edgar, et al.	
	A23	US-6,749,026	06-15-2004	Smith, et al.	
	A24	US- 6,742,591	06-01-2004	Metcalfe	
	A25	US- 6,732,822	05-11-2004	Slack, et al.	
	A26	US- 6,725,917	04-27-2004	Metcalfe	
	A27	US- 6,702,029	03-09-2004	Metcalfe, et al.	
	A28	US- 6,578,630	06-17-2003	Simpson, et al.	
	A29	US- 6,571,868	06-03-2003	Victor	
	A30	US- 6,527,049	03-04-2003	Metcalfe, et al.	
✓	A31	US- 6,446,323	09-10-2002	Metcalfe, et al.	
/HD/	A32	US- 6,425,444	07-30-2002	Metcalfe, et al.	

Examiner
Signature

/Hoang Dang/ (04/15/2007)

Date
Considered

04/15/2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 5

Complete if Known

Application Number	10/775,048
Filing Date	February 9, 2004
First Named Inventor	Richard L. Giroux
Art Unit	3672
Examiner Name	Hoang C. Dang
Attorney Docket Number	WEAT/0359.P1

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
/HD/	A33	US- 6,224,112	05-01-2001	Eriksen, et al.	
	A34	US- 6,085,838	07-11-2000	Vercaemer, et al.	
	A35	US- 6,029,748	02-29-2000	Forsyth, et al.	
	A36	US- 6,021,850	02-08-2000	Wood, et al.	
	A37	US- 5,901,787	05-11-1999	Boyle	
	A38	US-5,791,416	08-11-1998	White, et al.	
	A39	US- 5,718,288	02-17-1998	Bertet, et al.	
	A40	US- 5,685,369	11-11-1997	Ellis, et al.	
	A41	US- 5,560,426	10-01-1996	Trahan, et al.	
	A42	US- 5,409,059	04-25-1995	McHardy	
	A43	US- 5,303,772	04-19-1994	George, et al.	
	A44	US- 5,083,808	01-28-1992	Abdrakhmanov, et al.	
	A45	US- 5,024,273	06-18-1991	Coone, et al.	
	A46	US- 4,858,705	08-22-1989	Thiery	
	A47	US- 4,697,640	10-06-1987	Szarka	
	A48	US- 4,588,030	05-13-1986	Blizzard	
	A49	US- 4,531,581	07-30-1985	Pringle, et al.	
	A50	US- 4,469,174	09-04-1984	Freeman	
	A51	US- 4,429,820	02-07-1984	Burkhardt, et al.	
	A52	US- 4,324,407	04-13-1982	Upham, et al.	
	A53	US-4,319,393	03-16-1982	Pogonowski	
	A54	US- 4,288,082	08-08-1981	Setterberg, Jr.	
	A55	US- 4,159,564	07-03-1979	Cooper, Jr.	
	A56	US- 4,127,168	11-28-1978	Hanson, et al.	
	A57	US- 4,069,573	01-24-1978	Rogers, Jr., et al.	
	A58	US- 3,948,321	04-06-1976	Owen, et al.	
	A59	US- 3,911,707	10-14-1975	Minakov, et al.	
	A60	US- 3,818,734	06-25-1974	Bateman	
	A61	US- 3,776,307	12-04-1973	Young	
	A62	US- 3,712,376	01-23-1973	Owen, et al.	
	A63	US- 3,487,180	09-16-1969	Pensotti	
	A64	US- 3,195,646	07-20-1965	Brown	

Examiner
Signature

/Hoang Dang/ (04/15/2007)

Date
Considered

04/15/2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 3 of 5

Complete if Known

Application Number	10/775,048
Filing Date	February 9, 2004
First Named Inventor	Richard L. Giroux
Art Unit	3672
Examiner Name	Hoang C. Dang
Attorney Docket Number	WEAT/0359.P1

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
/HD/	A65	US- 3,087,548	04-30-1963	Woolley	
	A66	US- 2,898,971	08-11-1959	Hempel	
	A67	US- 2,383,214	08-21-1945	Prout	
	A68	US- 2,345,308	03-28-1944	Wallace	
	A69	US- 2,344,120	03-14-1944	Baker	
	A70	US- 2,216,226	10-01-1940	Bumpous	
	A71	US- 2,214,226	09-10-1940	English	
	A72	US- 1,930,825	10-17-1933	Raymond	
	A73	US- 1,597,212	08-24-1926	Spengler	
	A74	US- 1,569,729	01-12-1926	Duda	
	A75	US- 1,561,418	11-10-1925	Duda	
	A76	US- 1,545,039	07-07-1925	Deavers	
	A77	US- 1,459,990	06-26-1923	Reed	
	A78	US- 1,324,303	12-09-1919	Carmichael	
	A79	US- 761,518	05-31-1904	Lykken	
	A80	US- 2004/0112693	06-17-2004	Baumann, et al.	
	A81	US- 2004/0060700	04-01-2004	Vert, et al.	
	A82	US- 2002/0166668	11-14-2002	Metcalfe, et al.	
	A83	US- 2002/0145281	10-10-2002	Metcalfe, et al.	
	A84	US- 2001/0045284	11-29-2001	Simpson, et al.	
	A85	US- 2001/0040054	11-15-2001	Haugen, et al.	
	A86	US-2001/0000101	04-05-2001	Lovato, et al.	
	A87	US-			
	A88	US-			
	A89	US-			
	A90	US-			
	A91	US-			
/HD/	A92	US-			

Examiner
Signature

/Hoang Dang/ (04/15/2007)

Date
Considered

04/15/2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 4 of 5

Complete if Known

Application Number	10/775,048
Filing Date	February 9, 2004
First Named Inventor	Richard L. Giroux
Art Unit	3672
Examiner Name	Hoang C. Dang
Attorney Docket Number	WEAT/0359.P1

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²	
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)					
/HD/	B1	EP 0 397 323	11-14-1990	Cherrington			
↓	B2	GB 2 326 896	01-06-1999	Montaron			
	B3	GB 2 320 734	07-01-1998	Coronado, et al.			
	B4	GB 2 239 918	07-17-1991	Vanderjagt			
	B5	GB 887,150	01-17-1962	Schramm, et al.			
	B6	RU 2079633	05-20-1997	Sultan, et al.			
	B7	WO 02/092956	11-21-2002	Blange			
	B8	WO 02/29199	04-11-2002	Cook, et al .			
	B9	WO 01/66901	09-13-2001	Vuyk			
	B10	WO 01/60545	08-23-2001	Cook, et al.			
	B11	WO 00/77431	12-21-2000	Cook, et al.			
	B12	WO 00/37773	06-29-2000	Metcalfe, et al.			
	↓	B13	WO 00/37772	06-29-2000	Metcalfe, et al.		
		B14	WO 99/18328	04-15-1999	Bailey, et al.		
/HD/	B15	WO 82/01211	04-15-1982	Gaines			
	B16						
	B17						
	B18						
	B19						
	B20						
	B21						
	B22						
	B23						
	B24						
	B25						
	B26						
	B27						

Examiner
Signature

/Hoang Dang/ (04/15/2007)

Date
Considered

04/15/2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/775,048
		Filing Date	February 9, 2004
		First Named Inventor	Richard L. Giroux
		Art Unit	3672
		Examiner Name	Hoang C. Dang
		Attorney Docket Number	WEAT/0359.P1
Sheet	5	of	5

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/HD/	C1	Multilateral Case History, Onshore-Nigeria, Baker Hughes, 2000	
/HD/	C2	Multilateral Case History, Offshore Norway, Baker Hughes, 1995	
/HD/	C3	TOMMY WARREN, BRUCE HOUTCHENS, AND GARRETT MADELL, Directional Drilling With Casing, SPE/IADC 79914, SPE/IADC Drilling Conference, Amsterdam, The Netherlands, February 19-21, 2003, pages 1-10	
	C4		
	C5		
	C6		
	C7		
	C8		
	C9		
	C10		
	C11		
	C12		
	C13		
	C14		

Examiner Signature	/Hoang Dang/ (04/15/2007)	Date Considered	04/15/2007
--------------------	---------------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

FEB 23 2007 (Use as many sheets as necessary)

Sheet 1 of 2**Complete if Known**

Application Number	10/775,048
Filing Date	February 9, 2004
First Named Inventor	Richard L. Giroux
Art Unit	3672
Examiner Name	Hoang C. Dang
Attorney Docket Number	WEAT/0359.P1

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
/HD/	A1	US- 7,185,834	01/23/2007	Vail, III	
	A2	US- 7,159,668	01/09/2007	Herrera	
	A3	US- 7,147,088	12/12/2006	Vail, III	
	A4	US- 7,143,847	12/05/2006	Pia	
	A5	US- 7,140,455	11/28/2006	Walter, et al.	
	A6	US- 7,140,443	11/28/2006	Beierbach, et al.	
	A7	US- 7,137,454	11/21/2006	Pietras	
	A8	US- 7,128,154	10/31/2006	Giroux, et al.	
	A9	US- 7,124,825	10/24/2006	Slack	
	A10	US- 7,108,080	09/19/2006	Tessari, et al.	
	A11	US- 7,082,997	08/01/2006	Slack	
	A12	US- 7,044,241	05/16/2006	Angman	
	A13	US- 7,013,992	03/21/2006	Tessari, et al.	
	A14	US- 6,892,819	05/17/2005	Cook, et al.	
	A15	US- 6,758,278	07/06/2004	Cook, et al.	
	A16	US- 6,742,584	06/01/2004	Appleton	
	A17	US- 6,725,919	04/27/2004	Cook, et al.	
	A18	US- 6,705,413	03/16/2004	Tessari	
	A19	US- 6,640,903	11/04/2003	Cook, et al.	
	A20	US- 6,612,383	09/02/2003	Desai, et al.	
	A21	US- 6,591,905	07/15/2003	Coon	
	A22	US- 6,554,063	04/29/2003	Ohmer	
	A23	US- 6,497,289	12/24/2002	Cook, et al.	
	A24	US- 6,401,820	06/11/2002	Kirk, et al.	
	A25	US- 6,311,792	11/06/2001	Scott, et al.	
	A26	US- 6,244,363	06/12/2001	McLeod	
	A27	US- 6,106,200	08/22/2000	Mocivnik, et al.	
	A28	US- 6,085,838	07/11/2000	Vercaemer, et al.	
	A29	US- 6,059,053	05/09/2000	McLeod	
	A30	US- 5,878,815	03/09/1999	Collins	
	A31	US- 5,829,539	11/03/1998	Newton, et al.	
	A32	US- 5,730,221	03/24/1998	Longbottom, et al.	
	A33	US- 5,685,373	11/11/1997	Collins, et al.	
	A34	US- 5,462,120	10/31/1995	Gondouin	
	A35	US- 5,435,386	07/25/1995	LaFleur	
	A36	US- 5,394,823	03/07/1995	Lenze	
/HD/	A37	US- 5,311,952	05/17/1994	Eddison, et al.	

Examiner
Signature

/Hoang Dang/ (04/15/2007)

Date
Considered

04/15/2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 2

Complete if Known

Application Number	10/775,048
Filing Date	February 9, 2004
First Named Inventor	Richard L. Giroux
Art Unit	3672
Examiner Name	Hoang C. Dang
Attorney Docket Number	WEAT/0359.P1

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
/HD/	A38	US- 5,271,472	12/21/1993	Letumo	
	A39	US- 4,770,259	09/13/1988	Jansson	
	A40	US- 4,708,202	11/24/1987	Sukup, et al.	
	A41	US- 4,182,423	01/08/1980	Ziebarth, et al.	
	A42	US- 3,935,910	02/03/1976	Gaudy, et al.	
	A43	US- 3,856,564	04/18/1972	Brown	
	A44	US- 3,273,660	09/20/1966	Jackson, et al.	
	A45	US- 3,001,585	09/26/1961	Shiplot	
	A46	US- 2,696,367	12/07/1954	Robishaw	
	A47	US- 2005/0077048	04/14/2005	Hall	
/HD/	A48	US- 2005/0011643	01/20/2005	Slack, et al.	
	A49	US- 2004/0182579	09/23/2004	Steele, et al.	
	A50	US- 2003/0183424	10/02/2003	Tulloch	
	A51	US- 2003/0042022	03/06/2003	Lauritzen, et al.	
	A52	US-			
	A53	US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
/HD/	B1	GB 733,596	07/13/1955	Cochran, et al.		
/HD/	B2	WO 00/50730	08/31/2000	Tessari		
	B3					
	B4					
	B5					
	B6					
	B7					
	B8					
	B9					
	B10					

Examiner Signature	/Hoang Dang/ (04/15/2007)	Date Considered	04/15/2007
-----------------------	---------------------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.